

DIGITAL FILTER

Patent Number: JP4222111
Publication date: 1992-08-12
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Requested Patent: ☐ JP4222111
Application Number: JP19900413390 19901221
Priority Number(s):
IPC Classification: H03H17/02 ; H03H17/06
EC Classification:
Equivalents:

114-22211

Abstract

PURPOSE: To obtain the compact and high-speed digital filter to easily change a filter coefficient.
CONSTITUTION: A multiplier 12 multiplies a coefficient signal 2 and the output of a counter 12, which values are increased within a range available for an input signal 1 to be multiplied with this coefficient signal 2, and the multiplied results are successively stored in the addresses, which are decided by the count values as mentioned above, of a storing means 5 selected by a storing means selecting means 6. The input signal 1 is decoded by an address decoder 8, and the product of the above-mentioned input signal and the above-mentioned coefficient signal is read out from the above-mentioned storing means 5.

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